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| **User Stories:** **Have a QRcode Scanner (Focus on size, nonfunctional)** | | |
| **Tasks** | **Estimate time** | **Owner** |
| Create UI for QRcode Scanner | 5 hrs | Gott |
| Open the Camera for taking photos of QRcode | iOS: 7 hrs  Android: 5 hrs | Xiaojing  Nathan |
| Application receive the QR code photo | iOS: 8 hrs  Android: 3 hrs | Xiaojing  Nathan |
| **User Story:** **Use the QRcode scanner to to determine the location from the map data (size)** | | |
| **Tasks** | **Estimate time** | **Owner** |
| Application resizes and adjusts the QRcode for later QR code recognition. | iOS: 7 hrs  Android: 6 hrs | Xiaojing  Nathan |
| Read QRcode and find the corresponding ID to the QR code. | iOS: 8 hrs  Android: 5 hrs | Xiaojing  Nathan |
| Use QRcode ID to find the corresponding map | 6 hrs | Nathan |
| **User Story: User can input his current location (room) manually** | | |
| **Tasks** | **Estimate time** | **Owner** |
| Application has an input text box for this purpose |  |  |
| Application receives user input and send it to be processed |  |  |
| **User Story: Have the application know which building I am currently in without inputting the building name** | | |
| **Tasks** | **Estimate time** | **Owner** |
| Application obtains the user’s geolocation |  |  |
| Application uses the user’s geolocation to find the corresponding building |  |  |
| **User Story: See the building map and the current location according to the map** | | |
| **Tasks** | **Estimate time** | **Owner** |
| Application shows the map corresponding to user input |  |  |
| Application obtains the coordinate that represents the location of the user |  |  |
| Application displays the point that represents the user location on the map. |  |  |
| **User Story: See nearby public facilities on the map right away** | | |
| **Tasks** | **Estimate time** | **Owner** |
| Application has the database separated for the public facilities |  |  |
| Application obtains the list of close public facilities from the database |  |  |
| Application shows the corresponding public facilities on the map |  |  |
| **User Story: User can input the destination(Focus on size, nonfunctional)** | | |
| **Tasks** | **Estimate time** | **Owner** |
| Application elegantly shows the input box on the map screen for ease of input |  |  |
| Application receives user input and send it to be processed |  |  |
| The final destination will be shown on map with the right scale and position |  |  |
| **User Story: User can see the suggestions while inputting the destination** | | |
| **Tasks** | **Estimate time** | **Owner** |
| Application has the method for querying the list of possible destinations from the database |  |  |
| Application shows the possible destination as an autocomplete list for the textbox |  |  |
| Application updates the list while user types |  |  |